EEEEEEEEEEEEE	RRRRRRRRRRRR	FFFFFFFFFFFFF
EEEEEEEEEEEEE	RRRRRRRRRRR	FFFFFFFFFFFFF
ÉÉÉÉÉÉÉÉÉÉÉÉÉÉ	RRRRRRRRRRR	FFFFFFFFFFFFF
EEE	RRR RRR	FFF
EEE		
	RRR RRR	FFF
EEE	RRR RRR	FFF
EEE	RRR RRR	FFF
EEE	RRR RRR	FFF
ĒĒĒ	RRR RRR	FFF
EEEEEEEEEE	RRRRRRRRRRR	FFFFFFFFFF
EEEEEEEEEEE	RRRRRRRRRRRR	FFFFFFFFFF
EEEEEEEEEE	RRRRRRRRRRRR	FFFFFFFFFF
EEE	RRR RRR	FFF

EEE	RRR RRR	FFF
EEEEEEEEEEEE	RRR RRR	FFF
EEEEEEEEEEEEE	RRR RRR	FFF
EEEEEEEEEEEE	RRR RRR	FFF
	mm mm	111

RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	KK KK KK KK KKKKK KKKKK KK KK KK KK KK K	KK DDDDDDDD KK DD CK DD	\$	KK	••••
Li Li Li Li Li Li Li		\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$			

PR

RK

F

VA

A

SUBROUTINE RKDISK (LUN)

Version: 'v04-000'

0001 0002 0003

0009 0010 0011

0017

0018

0019 0020

0021 0022 0023

0028 0029 0030

0031 0032

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0039 0040

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AUTHOR BRIAN PORTER

CREATION DATE 31-MAR-1979

functional description:

This module displays entries made for the RK611 controller. The format of the error log packet after the 4 longword header is as follows.

A		
	rkcs1	
	rkwc	
	rkba	
	rkda	
1	rkc s 2	
	rkds	;
!	rker	
1	rkas	
1	rkdc	;

RK

FU

```
rkmr1
rkec2
rkmr2
rkmr3
uba datapath number
uba datapath register
uba final mapping register
uba previous mapping register
```

Modified by:

0058

0059

0060

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0063 0063

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0065

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0070

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0074 0075

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0095 0096

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0101 0102 0103

0104

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0106 0107

0108

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C * *

V03-003 SAR0231 Sharon A. Reynolds, 28-Mar-1984 Changed the call to UCB\$L_OWNUIC to ORB\$L_OWNER.

V03-002 SAR0092 Sharon A. Reynolds, 20-Jun-1983 Changed the carriage control in the 'format' statements for use with ERF.

V03-001 SAR0049 Sharon A. Reynolds, 13-Jun-1983 Removed brief/cryptic support.

v02-005 BP0005 Brian Porter, 23-NOV-1981 minor edit.

v02-004 BP0004 Brian Porter, 03-NOV-1981 Added device attention support.

v02-003 BP0003 Brian Porter, 30-SEP-1981 Corrected call to uba_mapping.

v02-002 BP0002 Brian Porter, 23-JUL-1981 Added new uba handling routines.

v02-001 BP0001 Brian Porter, 29-JUN-1981 Made the default register output 16-bit. Added call to new DHEAD and LOGGER modules. Removed call to UNUSED_BITS, ILLEGAL_BITS and REGCHK.

INCLUDE 'SRC\$:MSGHDR.FOR /NOLIST' INCLUDE 'SRC\$:DEVERR.FOR /NOLIST'

BYTE

LUN

INTEGER*4

RKCS1

```
RK
```

```
INTEGER+4
INTEGER+4
0273
0274
0275
0276
0277
0278
0281
0282
0283
                                                                     RKWC
                                                                     RKBA
                                   INTEGER+4
                                                                     RKDA
                                   INTEGER+4
                                                                     RKCS2
                                   INTEGER+4
                                                                     RKDS
                                   INTEGER+4
                                                                     RKER
                                   INTEGER+4
                                                                     RKAS
                                   INTEGER+4
                                                                     RKDC
                                   INTEGER+4
                                                                     RKMR1
                                   INTEGER+4
                                                                     RKEC1
                                   INTEGER+4
                                                                     RKEC2
0284
0285
                                                                    RKMR2
RKMR3
                                   INTEGER+4
                                   INTEGER+4
0286
                                   INTEGER+4
                                                                    UBA REGS(4)
FIECD
0287
                                   INTEGER+4
                                                                    DRIVE FUNC
COMPRESSO
0288
                                   INTEGER+4
0289
                                   INTEGER+4
0290
0291
0293
0293
0294
0296
0298
0298
0301
0303
0304
0306
0307
0308
0307
0308
                                   INTEGER+4
                                                                     COMPRESS4
                                  logical*1
                                                                     diagnostic_mode
                                  PARAMETER
                                                                     TIMEOUT = 96
                                                                    XFER_ERR = 32
XFER_CMD = 8
RK06 = 1
RK07 = 2
                                  PARAMETER
                                  PARAMETER
                                  PARAMETER
                                  PARAMETER
                                  PARAMETER
                                                                     SEEK
                                                                                        =
                                                                   (RKCS1,EMB$L_DV_REGSAV(0))
(RKWC,EMB$L_DV_REGSAV(1))
(RKBA,EMB$L_DV_REGSAV(2))
(RKDA,EMB$L_DV_REGSAV(3))
(RKCS2,EMB$L_DV_REGSAV(4))
(RKDS,EMB$L_DV_REGSAV(5))
(RKER,EMB$L_DV_REGSAV(5))
(RKAS,EMB$L_DV_REGSAV(6))
(RKAS,EMB$L_DV_REGSAV(7))
(RKDC,EMB$L_DV_REGSAV(8))
(RKMR1,EMB$L_DV_REGSAV(10))
(RKEC1,EMB$L_DV_REGSAV(11))
(RKEC2,EMB$L_DV_REGSAV(11))
(RKMR2,EMB$L_DV_REGSAV(12))
(RKMR3,EMB$L_DV_REGSAV(13))
(UBA_REGS,EMB$L_DV_REGSAV(13))
                                  EQUIVALENCE
                                  EQUIVALENCE
0312
0313
0314
0316
0316
0317
0318
0321
03223
03226
0327
0328
0329
                                  EQUIVALENCE
                                   EQUIVALENCE
                                   EQUIVALENCE
                                                                     (UBA_RÉGS,EMB$L_DV_REGSAV(14))
                                  EQUIVALENCE
                                                   ER+8 OFFSET_DIR(0:1)
OFFSET_DIR(0) /'FORWAI
OFFSET_DIR(1) /'REVERS
                                  CHARACTER+8
                                                                                   /'FORWARD*'/
/'REVERSE*'/
                                  DATA
                                  DATA
                                                   R*5 RK06_OFFSET(1:5)
RK06_OFFSET(T) /'25*'/
RK06_OFFSET(2) /'200*'/
RK06_OFFSET(3) /'400*'/
RK06_OFFSET(4) /'800*'/
RK06_OFFSET(5) /'1200*'/
                                   CHARACTER+5
                                  DATA
                                  DATA
                                  DATA
                                  DATA
                                  DATA
                                                   R*5 RKO7_OFFSET(1:5)
RKO7_OFFSET(T) /'12.5*'/
                                   CHARACTER+5
                                  DATA
```

DATA

```
RK07_OFFSET(2) /'100*'/
RK07_OFFSET(3) /'200*'/
RK07_OFFSET(4) /'400*'/
RK07_OFFSET(5) /'600*'/
0330
03332
03333
03334
03336
03336
03338
0340
                           DATA
                           DATA
                           DATA
                           DATA
                                       ER*17 RK_FUNC(0:15)

RK_FUNC(0) /'SELE

RK_FUNC(1) /'PACK

RK_FUNC(2) /'DRIV

RK_FUNC(3) /'UNLO

RK_FUNC(4) /'STAR

RK_FUNC(5) /'RECA

RK_FUNC(6) /'OFFS

RK_FUNC(7) /'SEEK

RK_FUNC(8) /'READ

RK_FUNC(10) /'READ

RK_FUNC(11) /'WRIT

RK_FUNC(12) /'WRIT

RK_FUNC(13) /'ILLE

RK_FUNC(14) /'ILLE
                          CHARACTER*17
                           DATA
                                                                  /'SELECT DRIVE*'/
                           DATA
                                                                  /'PACK ACKNOWLEDGE+'/
                                                                  /'DRIVE_CLEAR+'/
/'UNLOAD+'/
                           DATA
                           DATA
                                                                  /'START SPINDLE*'/
/'RECALIBRATE*'/
                           DATA
0341
                           DATA
                                                                  /'RECALIBRATE*'/
/'OFFSET*'/
/'SEEK*'/
/'READ DATA*'/
/'WRITE DATA*'/
/'READ HEADER*'/
/'WRITE HEADER*'/
/'WRITE CHECK*'/
/'ILLEGAL FUNCTION*'/
/'ILLEGAL FUNCTION*'/
0342
0343
                           DATA
                           DATA
0344
                           DATA
0345
                           DATA
0346
                           DATA
0347
                           DATA
0348
                           DATA
0349
                           DATA
0350
                           DATA
                                                                  /'ILLEGAL FUNCTION*'/
0351
                           DATA
0352
0353
                           CHARACTER*7
                                                     RKCS1_1(0:0)
0354
                                       RKCS1_1(0)
                           DATA
                                                                 /'GO BIT+'/
0355
0356
                           CHARACTER+28
                                                    RKCS1_2(5:9)
                                       RKCS1_2(5)
RKCS1_2(6)
RKCS1_2(7)
RKCS1_2(8)
RKCS1_2(9)
0357
                           DATA
                                                                  /'TRANSFER ERROR (VMS)+'/
0358
                           DATA
                                                                  /'INTERRUPT ENABLE+'/
0359
                                                                  /'CONTROLLER READY+'/
                           DATA
0360
                                                                  /'EXTENDED BUS ADDRESS BIT 16+'/
                           DATA
0361
                                                                  /'EXTENDED BUS ADDRESS BIT 17*'/
                           DATA
0362
0363
                           CHARACTER+5
                                                     RKCS1_10(0:1)
                                       RKCS1_10(0)
RKCS1_10(1)
0364
                                                                  /'RK06*'/
                           DATA
                                                                  /'RKG7+'/
0365
                           DATA
0366
0367
                           CHARACTER+20
                                                     RKCS1_3(11:11)
                                       RKC$1_3(11)
0368
                                                                /'CONTROLLER TIME-OUT+'/
                           DATA
0369
0370
                                                     RK_FORMAT(0:1)
                           CHARACTER+14
                                        RK_FORMAT(0)
                                                                 /'16-BIT FORMAT+'/
/'18-BIT FORMAT+'/
0371
                           DATA
0372
                           DATA
                                        RK_FORMAT(1)
0373
0374
                           CHARACTER+33
                                                     RKCS1_4(13:15)
                                       RKCS1_4(13)
RKCS1_4(14)
RKCS1_4(15)
0375
                                                                  /'DRIVE-TO-CONTROLLER PARITY ERROR*'/
                           DATA
0376
                                                                  /'DRIVE INTERRUPT+'/
                           DATA
0377
                                                                  /'COMBINED ERROR+'/
                           DATA
0378
0379
                                                     RKCS2_1(3:15)
                           CHARACTER+30
                                       RKCS2_1(3)

RKCS2_1(4)

RKCS2_1(5)

RKCS2_1(6)

RKCS2_1(7)

RKCS2_1(8)

RKCS2_1(9)
0380
                                                                  /'RELEASE*'/
                           DATA
0381
                                                                  /'BUS ADDRESS INCREMENT INHIBIT+'/
                           DATA
0382
0383
0384
0385
                                                                  /'SUBSYSTEM CLEAR+'/
                           DATA
                                                                  /'INPUT READY+'/
                           DATA
                                                                  /'OUTPUT READY+'/
                           DATA
                           DATA
                                                                  /'UNIT FIELD ERROR+'/
```

/'MULTIPLE DRIVE SELECT+'/

EN

RK

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VA

```
F 11
                                                                                            16-Sep-1984 00:13:19
5-Sep-1984 14:21:27
RKDISK
                                  RKCS2_1(10)
RKCS2_1(11)
RKCS2_1(12)
RKCS2_1(13)
RKCS2_1(14)
RKCS2_1(15)
0387
0388
0389
                       DATA
                                                          /'PROGRAMMING ERROR*'/
                                                          /'NON-EXISTENT MEMORY+'/
                       DATA
                       DATA
                                                          /'NON-EXISTENT DRIVE+'/
0390
                       DATA
                                                          /'UNIBUS PARITY ERROR+'/
                                                          /'WRITE CHECK ERROR+'/
/'DATA LATE ERROR+'/
0391
                       DATA
0392
0393
                       DATA
0394
                       CHARACTER*16
                                              RKDS_1(0:0)
0395
                                   RKDS_1(0)
                       DATA
                                                         /'DRIVE AVAILABLE+'/
0396
0397
                       CHARACTER+16
                                              RKDS_2(2:7)
                                  RKDS 2(2)

RKDS 2(3)

RKDS 2(4)

RKDS 2(5)

RKDS 2(6)

RKDS 2(7)
0398
                                                          /'OFFSET MODE*'/
                       DATA
                                                          /'DRIVE AC LO*'/
/'SPEED LOSS*'/
0399
                       DATA
0400
                       DATA
0401
                       DATA
                                                          /'DRIVE OFF TRACK+'/
0402
0403
                       DATA
                                                          /'VOLUME VALID+'/
                       DATA
                                                          /'DRIVE READY+'/
0404
0405
                       CHARACTER*14
                                              RK_DRIVETYPE(0:1)
                                   RK_DRIVETYPE(O) /'DRIVE IS RKO6+'/
0406
                       DATA
                                   RK_DRIVETYPE(1) /'DRIVE IS RKO7+'/
0407
                       DATA
0408
0409
                                              RKDS_3(11:11)
                       CHARACTER*16
0410
                                   RKDS_3(11)
                                                        /'WRITE PROTECTED+'/
                       DATA
0411
                                              RKDS_4(13:15)
0412
                       CHARAC
                                 ~R+24
                                  PKDS_4(13)
KDS_4(14)
RKDS_4(15)
0413
                                                          /'POSITIONING IN PROGRESS+'/
                       DATA
                       DATA
                                                          /'CURRENT DRIVE ATTENTION+'/
0414
                                                          /'STATUS VALID+'/
0415
                       DATA
0416
0417
                       CHARACTER+33
                                  R*33 RKE
RKER 1 (0)
RKER 1 (1)
RKER 1 (2)
RKER 1 (3)
RKER 1 (4)
RKER 1 (5)
RKER 1 (6)
RKER 1 (6)
RKER 1 (7)
RKER 1 (10)
RKER 1 (10)
RKER 1 (11)
RKER 1 (12)
RKER 1 (13)
RKER 1 (15)
                                              RKER_1(0:15)
                       DATA
0418
                                                          /'ILLEGAL FUNCTION*'/
                                                          /'SEEK INCOMPLETE*'/
0419
                       DATA
0420
                                                          /'NON-EXECUTABLE FUNCTION*'/
                       DATA
0421
                       DATA
                                                          /'CONTROLLER-TO-DRIVE PARITY ERROR*'/
                                                         /'FORMAT ERROR*'/
/'DRIVE TYPE ERROR*'/
/'ERROR CORRECTION HARD*'/
0422
                       DATA
                       DATA
0424
0425
0426
0427
                       DATA
                                                          /'BAD SECTOR ERROR+'/
                       DATA
                       DATA
                                                          /'HEADER VERTICAL CHECK ERROR+'/
                       DATA
                                                          /'CYLINDER OVERFLOW ERROR*'/
0428
0429
0430
0431
0432
0433
                                                          /'INVALID DISK ADDRESS ERROR+'/
                       DATA
                       DATA
                                                          /'WRITE LOCK ERROR+'/
                                                          /'DRIVE TIMING ERROR+'/
                       DATA
                                                          /'OPERATION INCOMPLETE+'/
                       DATA
                       DATA
                                                          /'DRIVE UNSAFE*'/
                                                          /'DATA CHECK+'/
                       DATA
0435
0436
0437
0438
0439
                       CHARACTER+21
                                              V1RKMR2(4:15)
                                  V1RKMR2(4)
V1RKMR2(5)
V1RKMR2(5)
V1RKMR2(6)
V1RKMR2(7)
V1RKMR2(8)
V1RKMR2(9)
V1RKMR2(10)
V1RKMR2(11)
                                                          /'SERVO SIGNAL PRESENT*'/
/'HEADS HOME*'/
                       DATA
                       DATA
                       DATA
                                                          /'BRUSHES HOME+'/
                       DATA
                                                          /'DOOR LATCHED+'/
0440
                       DATA
                                                          /'CARTRIDGE PRESENT+'/
                                                          /'SPEED OK+'/
0441
                       DATA
0442
                       DATA
                                                          /'FORWARD*'/
                       DATA
                                                          /'REVERSE*'/
```

RK

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Page

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[ERF.SRC]RKDISK.FOR:1 G 11

```
V1RKMR2(12)
V1RKMR2(13)
V1RKMR2(14)
V1RKMR2(15)
0444
                      DATA
                                                       /'HEADS LOADING+'/
                                                       /'RETURN TO ZERO+'/
                      DATA
0446
                      DATA
                                                       /'UNLOADING HEADS+'/
0447
0448
04450
0453
0453
0456
0457
0458
                      DATA
                                                       /'ODD PARITY BIT+'/
                      CHARACTER+29
                                           V1RKMR3(4:15)
                                ER+29 V1R
V1RKMR3(4)
V1RKMR3(5)
V1RKMR3(6)
V1RKMR3(7)
V1RKMR3(8)
V1RKMR3(9)
V1RKMR3(10)
V1RKMR3(11)
V1RKMR3(12)
                                                      7'SÉCTOR ERROR * 1/
                      DATA
                                                      /'WRITE CURRENT, NO WRITE GATE*'/
/'WRITE GATE, NO TRANSITIONS*'/
                      DATA
                      DATA
                      DATA
                                                       /'HEAD FAULT+'/
                                                       /'MULTIPLE HEAD SELECT+'/
                      DATA
                                                      /'INDEX ERROR*'/
/'IRIBIT ERROR*'/
/'SERVO SIGNAL ERROR*'/
                      DATA
                      DATA
                      DATA
                                                       /'SEEK AND NO MOTION+'/
                      DATA
                                 V1RKMR3(13)
                                                       /'LIMIT DETECT ON SEEK+'/
                      DATA
                                 V1RKMR3(14)
                                                       /'SERVO UNSAFE+'/
0460
                      DATA
0461
                                                      /'ODD PARITY BIT+'/
                                 V1RKMR3(15)
                      DATA
0462
0464
                      CALL FRCTOF (LUN)
0465
0466
                      call dhead1 (lun,'UBA RK611')
0467
0468
                      diagnostic_mode = .false.
0469
                     if (lib$extzv(5,1,rkmr1) .eq. 1) diagnostic_mode = .true.
0471
0473
                      call linchk (lun.2)
0474
                     write(lun,20) rkcs1 format(/' ',T8,'RKCS1',t24,z8.4)
0475
           20
0476
0477
                     if (.not. diagnostic_mode) then
0478
0479
                      CALL OUTPUT (LUN, RKCS1, RKCS1_1,0,0,0,'0')
0/80
0481
                      DRIVE_FUNC=LIBSEXTZV(1,4,RKCS1)
0482
0483
                     CALL LINCHK (LUN,1)
0484
0485
                     WRITE(LUN,30) RK_FUNC(DRIVE_FUNC)
FORMAT(' ',140,A<COMPRESSC (RK_FUNC(DRIVE_FUNC))>)
0486
0487
0488
           30
                      CALL OUTPUT (LUN, RKCS1, RKCS1_2,5,5,9,'0')
0489
0490
0491
0492
0493
                      fIELD=LIBSEXT7V(10,1,RKCS1)
                      CALL LINCHK (LUN, 1)
0494
                     WRITE(LUN, 40) RKCS1_10(FIELD)
FORMAT(' ', T40, 'CONTROLLER DRIVE TYPE ',
           40
0496
0497
                     1 A<COMPRESSC (RKCS1_10(FIELD))>)
0498
                      CALL OUTPUT (LUN, RKCS1, RKCS1_3, 11, 11, 11, '0')
0499
0500
                      FIELD=LIBSEXTZV(12,1,RK(S1)
```

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```
0501
0502
0503
0504
0505
0506
0507
                        CALL LINCHK (LUN.1)
                        WRITE(LUN,44) RK_FORMAT(FIELD)
FORMAT(' ',T40,A<COMPRESSC (RK_FORMAT(FIELD))>)
            44
                        CALL OUTPUT (LUN, RKCS1, RKCS1_4, 13, 13, 15, '0')
                        endif
0509
0510
                        CALL LINCHK (LUN.1)
0511
0512
0513
0514
0515
                        WRITE(LUN,50) RKWC FORMAT('', T8, 'RKWC', T24, Z8.4)
            50
                        CALL LINCHK (LUN.1)
0516
                        WRITE(LUN,60) RKBA
FORMAT(' ',18,'RKBA',124,28.4)
0517
0518
0519
0520
0521
0522
0523
0524
0525
0527
0528
0529
            60
                        if (.not. diagnostic_mode) then
                        IF (DRIVE_FUNC .GE. XFER_CMD) THEN
                        CALL CALC_MAP (LUN, 8, RKCS1, RKBA)
                        ENDIF
                        endif
                        CALL LINCHK (LUN.1)
                        WRITE(LUN, 70) RKDA
FORMAT('', 18, 'RKDA', 124, 28.4)
0531
0532
0533
0534
0535
            70
                        if (.not. diagnostic_mode) then
                        CALL LINCHK (LUN.2)
0536
0537
0537
0537
0537
0537
0537
0537
0544
0544
0554
0555
0555
                        FIELD=LIBSEXTZV(0,5,RKDA)
                       write(lun,80) field
format(' ',140,'SECTOR = ',1<COMPRESS4 (FIELD)>,'.')
            80
                        FIELD=LIB$EXTZV(8,3,RKDA)
                        WRITE(LUN, 90) FIELD FORMAT(' ', T40, 'TRACK = ', I < COMPRESS4 (FIELD) > , '.')
            90
                        endif
                        CALL LINCHK (LUN,1)
                        WRITE(LUN, 100) RKCS2
FORMAT(' ', T8, 'RKCS2', T24, Z8.4)
            100
0552
0553
0554
                        if (.not. diagnostic_mode) then
0555
                        CALL LINCHK (LUN,1)
0556
0557
                        FIELD=LIBSEXTZV(0,3,RKCS2)
```

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RL

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0558
0559
0560
0561
0563
0564
0565
0568
0569
0570
                     WRITE(LUN,110) FIELD FORMAT(' ',T40,'SELECTED DRIVE = ',11,'.')
           110
                     CALL OUTPUT (LUN, RKCS2, RKCS2_1, 3, 3, 15, '0')
                     endif
                     CALL LINCHK (LUN.1)
                     WRITE(LUN, 120) RKDS
FORMAT('', T8, 'RKDS', T24, Z8.4)
          120
                     if (.not. diagnostic_mode) then
0572
0573
                     CALL OUTPUT (LUN, RKDS, RKDS_1,0,0,0,'0')
0574
                     CALL OUTPUT (LUN, RKDS, RKDS_2, 2, 2, 7, '0')
0575
0576
0577
                     CALL LINCHK (LUN,1)
0578
0579
                     FIELD=LIBSEXTZV(8,1,RKDS)
0580
                     WRITE(LUN, 130) RK_DRIVETYPE(FIELD)
0581
0582
0583
                     FORMAT( T40, A < COMPRESSC (RK_DRIVETYPE (FIELD))>)
          130
                     CALL OUTPUT (LUN, RKDS, RKDS_3, 11, 11, 11, '0')
0584
0585
                     CALL OUTPUT (LUN, RKDS, RKDS_4, 13, 13, 15, '0')
0586
0587
                     endif
0588
0589
                     CALL LINCHK (LUN.1)
0590
                    WRITE(LUN, 140) RKER FORMAT(' ', T8, 'RKER', T24, Z8.4)
0591
          140
0592
0593
                     if (.not. diagnostic_mode) then
0594
0595
                     IF (JIAND(RKDS, '8000'X) .NE. 0) THEN
0596
0597
                     CALL OUTPUT (LUN, RKER, RKER_1, 0, 0, 15, '0')
0598
0599
                     ENDIF
                     endif
0600
0601
0602
0603
0604
0605
                     CALL LINCHK (LUN.1)
                     WRITE(LUN, 150) RKAS
FORMAT('', T8, 'RKAS/OF', T24, Z8.4)
          150
0606
                     if (.not. diagnostic_mode) then
0607
0608
                     FIELD=LIBSEXTZV(0,6,RKAS)
0609
0610
                     IF (FIELD .NE. O) THEN
0611
0612
                     CALL LINCHK (LUN,1)
                     IF (FIELD .NE. 1 .AND.
0614
```

```
RL
```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]RKDISK.FOR; 1

Page

```
J 11
                                                                                                          16-Sep-1984 00:13:19
RKDISK
                                                                                                            5-Sep-1984 14:21:27
                                 FIELD .NE. 8 .AND.
FIELD .NE. 16 .AND.
FIELD .NE. 32 .AND.
FIELD .NE. 48) THEN
0615
0616
0617
0618
06190
0622345
06622345
06622345
0662331
06623345
06633345
06633345
0663345
0664423
                          WRITE(LUN, 155)
FORMAT(' , 140, 'INVALID OFFSET')
             155
                           GOTO 185
                           ELSE IF (EMB$B_DV_TYPE .EQ. RKO6) THEN
                          FIELD=FIELD/8
                          WRITE(LUN,160) RK06_OFFSET(FIELD)
FORMAT(' ',140,'OFFSET = ',
1 A<COMPRESSC (RK06_OFFSET(FIELD))>,' MICRO INCHES')
             160
                          ELSE IF (EMB$B_DV_TYPE .EQ. RK07) THEN
                          FIELD=FIELD/8
                          WRITE(LUN,165) RK07_OFFSET(FIELD)
FORMAT(' ',140,'OFFSET = ',
1 A<COMPRESSC (RK07_OFFSET(FIELD))>,' MICRO INCHES')
             165
                           ENDIF
                          FIFLD=LIBSEXTZV(7,1,RKAS)
0644
                          CALL LINCHK (LUN,1)
0646
0647
0648
0649
0650
                          WRITE(LUN, 170) OFFSET_DIR(FIELD)
FORMAT(' ', T40, 'OFFSET DIRECTION = ',
1 A<COMPRESSC (OFFSET_DIR(FIELD))>)
             170
                          ENDIF
0651
0652
0653
0654
0655
0656
0657
             185
                          DO 195 I=8.15
                          FIELD=LIBSEXTZV(I,1,RKAS)
                          IF (FIELD .NE. 0) THEN
                          CALL LINCHK (LUN,1)
                          WRITE(LUN, 190) (1-8) FORMAT(' ', 140, 'ATTENTION DRIVE ', 11, '.')
0650
             190
0661
                           ENDIF
0662
0663
             195
                          CONTINUE
0664
                          endif
0665
0666
0667
                          CALL LINCHK (LUN,1)
                          WRITE(LUN, 200) RKDC FORMAT(' ', 18, 'RKDC', 124, 28.4)
0668
0669
0670
             200
0671
                           if (.not. diagnostic_mode) then
```

Page

```
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RKD!SK
0672
0673
0674
0675
0676
0677
0678
                       FIELD=LIBSEXTZV(0,10,RKDC)
                        IF (FIELD .NE. O) THEN
                       CALL LINCHK (LUN,1)
                       WRITE(LUN,210) FIELD FORMAT(' ',T40,'DESIRED CYLINDER = ',I<COMPRESS4 (FIELD)>,'.')
0680
0681
0682
0683
0684
0685
            210
                       END1F
                       endif
                       CALL LINCHK (LUN,1)
                       WRITE LUN, 230) RKMR1 FORM, (' ', T8, 'RKMR1', T24, Z8.4)
0686
0687
0688
            230
0689
                       if (diagnostic_mode) then
0690
0691
0692
0693
                       call linchk (lun,1)
                       WRITE(LUN, 235)
FORMAT(' ', 140, 'DIAGNOSTIC MODE')
0694
0695
0696
0697
0698
            235
                       endit
                       CALL LINCHK (LUN.1)
0699
0700
0701
0702
0703
                       WRITE(LUN, 240) RKEC1 
FORMAT(' ', T8, 'RKEC1', T24, Z8.4)
           240
                       CALL LINCHK (LUN,1)
0704
0705
0706
0707
                       WRITE(LUN, 250) RKEC2 FORMAT(' ', T8, 'RKEC2', T24, Z8.4)
           250
                       CALL LINCHK (LUN.1)
0708
0709
                       WRITE(LUN, 260) RKMR2
FORMAT('', T8, 'RKMR2', T24, Z8.4)
0710
            260
0711
0712
0713
                        if (.not. diagnostic_mode) then
0714 0715
                        IF ((JIAND(RKMR1, '01'X) .NE. 0)
                           . AND.
0716
                           (EMB$W_HD_ENTRY .EQ. TIMEOUT)
0717
                        3 .AND.
U718
                        4 (JIAND(RKMR3, '01'X) .NE. 0)) THEN
0719
0720
0721
0722
0723
0724
0725
0726
0727
0728
                       CALL LINCHK (LUN.1)
                       WRITE(LUN, 261)
FORMAT(' ', 140, '*** MESSAGE A1 ***')
            261
                       fIELD = LIBSEXTZV(0.3,RKMR2)
                       CALL LINCHK (LUN,1)
```

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VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[ERF.SRC]RKDISK.FOR;1

```
L 11
                                                                                  16-Sep-1984 00:13:19
RKDISK
                                                                                                                VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]RKDISK.FOR;1
                                                                                   5-Sep-1984 14:21:27
0729
0730
0731
0732
0733
0735
0736
0737
0738
0739
0740
                    write(lun,262) field
format(' ',T40,'SELECTED DRIVE = ',I<COMPRESS4 (field)>,'.')
           262
                     CALL OUTPUT (LUN, RKMR2, V1RKMR2, 4, 4, 15, '0')
                     endif
                     CALL LINCHK (LUN_1)
                     WRITE(LUN,270) RKMR3
FORMAT(' ',T8,'RKMR3',T24,Z8.4)
           270
0741
0742
0743
                     if (.not. diagnostic_mode) then
                     If ((JIAND(RKMR1,'01'X) .NE. 0)
0744
0745
                       .AND.
                       (EMB$W_HD_ENTRY .EQ. TIMEOUT)
0746
                       .AND.
0747
                       (JIAND(RKMR3, '01'X) .NE. 0)
0748
                       .AND.
0749
0750
                     6 (JIAND(RKMR3, 'FFFC'X) .NE.O)) THEN
0751
0752
0753
0754
0755
                     CALL LINCHK (LUN.1)
                    WRITE(LUN, 272)
FORMAT(' ', T40, '*** MESSAGE B1 ***')
          272
0756
                     CALL OUTPUT (LUN, RKMR3, V1RKMR3, 4, 4, 15, '0')
0757
0758
0759
0760
                     ENDIF
                     endif
                     if (
0761
                     1 drive_func .ge. xfer_cmd
0762
0763
                       .and.
                       emb$w_hd_entry .ne. 96
0764
0765
                       .and.
                       emb$w_hd_entry .ne. 98
0766
0767
                     1) then
0768
0769
                     if (uba_regs(1) .ne. 0) then
0770
                     call uba_datapath (lun,uba_regs(1),uba_regs(2))
0771
                     endif
0772
0773
                     call calc_map2 (8,rkcs1,rkba,field)
0774
0775
                     call uba_mapping (lun,field,uba_regs(3))
0776
0777
0778
                     1 lib$extzv(16,16,emb$l_dv_iosb1) .gt. 512
0779
                    1 .and.
1 field .ne. 0
0780
0781
                     1) then
0782
0783
                     call uba_mapping (lun,(field-1),uba_regs(4))
                     endif
0785
```

endif

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write(lun,275)
format(',:) 275 if (emb\$w_hd_entry .ne. 98) then call ucb\$b_ertcnt (lun,emb\$b_dv_ertcnt) call_ucb\$b_ertmax (lun,emb\$b_dv_ertmax) endif call orb\$l_owner (lun,emb\$l_dv_ownuic) call ucb\$l_char (lun,emb\$l_dv_char) call ucb\$w_sts (lun,emb\$w_dv_sts) 0804 0805 call ucb\$l_opcnt (lun,emb\$l_dv_opcnt) 0806 0807 call ucb\$w_errcnt (lun,emb\$w_dv_errcnt) 0808 0809 if (emb\$w_hd_entry .ne. 98) then 0810 0811 call ucb\$l_media (lun,emb\$l_dv_media) 0812 0813 call linchk (lun,1) 0814 0815 write(lun, 275) 0816 0817 call rkdisk_qio (lun,emb\$w_dv_func) 0818 0819 call irp\$w_bcnt (lun,emb\$w_dv_bcnt) 0820 0821 0822 0823 0824 0825 0826 call irp\$w_boff (lun,emb\$w_dv_boff) call irp\$l_pid (lun,emb\$l_dv_rqpid) call_irp\$q_iosb (lun,emb\$l_dv_iosb1) endif 0827 0828 0829 RETURN END

call linchk (lun,1)

```
16-Sep-1984 00:13:19
RKDISK
                                                                                                                              VAX-11 FORTRAN V3.4-56
                                                                                                                                                                                  Page 13
                                                                                                                              DISK$VMSMASTER: LERF. SRCJRKDISK. FOR: 1
                                                                                             5-Sep-1984 14:21:27
PROGRAM SECTIONS
      Name
                                                           Bytes
                                                                       Attributes
   O SCODE
                                                            2873
                                                                                                                  RD NOWRT LONG
                                                                       PIC CON REL LCL
                                                                                                SHR
   1 SPDATA
                                                             789
                                                                                                SHR NOEXE
                                                                       PIC CON REL LCL
                                                                                                                  RD NOWRT LONG
                                                            3780
512
   2 SLOCAL
3 EMB
                                                                      PIC CON REL LCL NOSHR NOEXE
PIC OVR REL GBL SHR NOEXE
                                                                                                                  RD
                                                                                                                         WRT LONG
                                                                                                                  RD
                                                                                                                         WRT LONG
                                                            7954
     Total Space Allocated
ENTRY POINTS
     Address Type Name
  0-00000000
                           RKDISK
VARIABLES
     Address Type Name
                                                                               Address Type Name
                                                                                                   DRIVE_FUNC
EMB$B_DV_ERTCNT
EMB$B_DV_NAMLNG
EMB$B_DV_TYPE
EMB$L_DV_IOSB1
EMB$L_DV_MEDIA
EMB$L_DV_OPCNT
EMB$L_DV_RQPID
EMB$T_DV_NAME
EMB$W_DV_BOFF
EMB$W_DV_FUNC
EMB$W_DV_UNIT
FMR$W_HD_ERRSEQ
                          DIAGNOSTIC MODE EMB$B DV CLASS EMB$B DV ERTMAX EMB$B DV SLAVE EMB$L DV CHAR EMB$L DV IOSB2 EMB$L DV OWNUIC EMB$L DV OWNUIC EMB$L DV BCNT EMB$W DV STS EMB$W HD ENTRY
   2-00000954
3-0000001C
                                                                            2-0000095C
3-00000010
                   L+1
                                                                                           1 * 4
                    L+1
                                                                                             L+1
   3-00000011
                    L+1
                                                                            3-0000003E
                                                                                             L+1
   3-0000003A
                   L+1
                                                                            3-0000001D
                                                                                             L+1
                    Ĩ * 4
   3-00000036
                                                                            3-00000012
                                                                                             Ī +4
                   1+4
   3-00000016
                                                                            3-00000026
                                                                                             I +4
                   1+4
   3-0000004E
                                                                            3-0000002E
                                                                                             1+4
                   1+4
   3-00000032
                                                                                             1+4
                                                                            3-0000001E
                    1+4
   3-00000000
                                                                            3-0000003F
                                                                                             CHAR
                                                                                             I * 2
I * 2
I * 2
   3-00000024
                    1+2
                                                                            3-00000022
   3-0000002C
                    Ī + 2
                                                                            3-00000030
                   I+2
   3-4000001A
                                                                            3-0000002A
  3-00000004 2-00000958
                           EMBSW_HD_ENTRY
                                                                            3-0000000E
                                                                                                    EMB$W_HD_ERRSEQ
                                                                            2-00000960
3-0000006E
                   1+4
                          FIELD
                                                                                             I ±4
 AP-00000004a L+1
                           LUN
                                                                                             1+4
                                                                                                    RKAS
   3-0000005A 1+4
                                                                            3-00000052
                           RKBA
                                                                                             I +4
                                                                                                    RKC$1
   3-00000062
                   1+4
                                                                            3-0000005E
                           RKCS2
                                                                                             I+4
                                                                                                    RKDA
                   1+4
                                                                            3-00000066
   3-00000072
                                                                                             1+4
                           RKDC
                                                                                                    RKDS
                                                                                             1+4
   3-0000007A
                    1+4
                           RKEC1
                                                                            -3-0000007E
                                                                                                    RKEC2
   3-0000006A
                    I +4
                                                                                             1+4
                                                                            3-00000076
                           RKER
                                                                                                    RKMR1
   3-00000082
                    1+4
                           RKMR2
                                                                            3-00000086
                                                                                                    RKMR3
   3-00000056
                   1 + 4
                           RKWC
ARRAYS
     Address Type Name
                                                                                  Bytes Dimensions
   3-00000000
                   L+1
                                                                                           (0:511)
(0:104)
                           EMB
                   I+4 EMB$L_DV_REGSAV
I+4 EMB$Q_HD_TIME
CHAR_OFFSET_DIR
CHAR_RK06_OFFSET
CHAR_RK07_OFFSET
   3-00000052
                                                                                     8
16
25
25
                                                                                           (2)
(0:1)
(5)
(5)
   3-00000006
   2-00000000
   2-00000010
   2-00000029
```

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```
Subroutine RKDISK_QIO (lun,emb$w_dv_func)
include 'src$:qiocommon.for /nolist'
byte
                lun
                emb$w_dv_func
integer*2
                qiocode(0:1,0:63)
integer*4
if (qiocode(0,0) .eq. 0) then
qiocode(1,00) = %loc(ios_nop)
qiocode(1,01) = %loc(io$_unload)
qiocode(1,02) = %loc(io$_seek)
qiocode(1,03) = %loc(io$_recal)
qiocode(1,04) = %loc(io$_drvclr)
qiocode(1,05) = %loc(io$_release)
qiocode(1,06) = %loc(io$_offset)
qiocode(1,07) = %loc(io$_retcenter)
qiocode(1,08) = %loc(io$_packack)
qiocode(1,10) = %loc(io$_writecheck)
qiocode(1,11) = %loc(io$_writepblk)
qiocode(1,12) = %loc(io$_readpblk)
qiocode(1,13) = %loc(io$_writehead)
qiocode(1,14) = %loc(io$_readhead)
qiocode(1,25) = %loc(io$_startspndl)
qiocode(1,26) = %loc(io$_setchar)
qiocode(1,27) = %loc(io$_sensechar)
qiocode(1,32) = %loc(io$_writelblk)
```

qiocode(1,33) = %loc(io\$_readlblk)

qiocode(1,35) = %loc(io\$_setmode)

qiocode(1,39) = %loc(io%_sensemode)

```
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```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]RKDISK.FOR; 1

```
0321
0323
0323
0324
0326
0327
03320
0333
0333
                    qiocode(1,48) = %loc(io$_writevblk)
                    qiocode(1,49) = %loc(io$_readvblk)
                    qiocode(1,50) = %loc(io$_access)
                    qiocode(1,51) = %loc(io%_create)
                    qiocode(1,52) = %loc(io%_deaccess)
                    qiocode(1,53) = %loc(io$_delete)
0334
                    qiocode(1,54) = %loc(io$_modify)
0335
0336
                    qiocode(1,56) = %loc(io$_acpcontrol)
0337
0338
                    qiocode(1,57) = %loc(io$_mount)
0339
0340
                    do 10,i = 0.63
0341
0342
0343
                    qiocode(0,i) = 33
0344
                    if (qiocode(1,i) .eq. 0) then
0346
0347
0348
0349
                    qiocode(1,i) = %loc(qio_string)
                    endif
         10
                   continue
0350
                    endif
0352
0353
                   call irp$w_func (lun,emb$w_dv_func,
1 qiocode(0,lib$extzv(0,6,emb$w_dv_func)))
0354
0355
                   return
0356
0357
```

end

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PROGRAM SECTIONS

Name	Bytes	Attributes
O \$CODE 1 \$PDATA 2 \$LOCAL 3 QIOCOMMON	295 8 548 1247	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	2098	

ENTRY POINTS

Address Type Name

0-0000000

RKDISK_QIO

VARIABLES

TAN INDEED					
Address	Type	EMB\$W_DV_FUNC IO\$_ABORT IO\$_ACPCONTROL IO\$_CLEAN IO\$_DEACCESS IO\$_DIAGNOSE IO\$_DOSE IO\$_FORMAT IO\$_LOADMCODE IO\$_MOUNT IO\$_OFFSET IO\$_READCSR IO\$_READCSR IO\$_READCSR IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_READUBLK IO\$_SEARCH IO\$_SEARCH IO\$_SEARCH IO\$_SETCHAR I	Address	Type	Name
AP-000000086 3-0000442	1+2	FMBSW DV FUNC	2-0000200	1+4	i
3-00000442	CHAR	IOS ABORT	3-000034p		io\$_ACCESS
3-00000302	CHAR	IOS ACPCONTROL	3-00004B3		IOS AVAILABLE
3-00000297	CHAR	IOS CLEAN	3-0000369		IOS_CREATE
3-00000385	CHAR	IOS_DEACCESS	3-0000393		IOS DELETE
3-0000026D	CHAR	10\$ DIAGNOSE	3-0000065		IO\$_DRVCLR
3-000004CB	CHAR	10\$ DSE	3-00000A9		10\$ ERASETAPE
3-00000276	CHAR	IOS FORMAT	3-0000071	CHAR	10\$ INITIALIZE
3-00000014	CHAR	IOS LOADMCODE	3-00003A1	CHAR	IOS MODIFY
3-000003E2	CHAR	IOS MOUNT	3-0000000		IOS NOP
3-0000009D	CHAR	IOS_FORMAT IOS_LOADMCODE IOS_MOUNT IOS_OFFSET IOS_QSTOP IOS_READCSR IOS_READLBLK IOS_READPRESET IOS_READVBLK IOS_READWTHXBUF IOS_RELEASE IOS_RELEASE IOS_REREADP IOS_SEARCH IOS_SEARCH IOS_SENSECHAR	3-00000EB	CHAD	IUE_DUCKUCK
3-000000E0	CHAR	10\$ QSTOP	3-00003EF	CHAR	IOS RDSTATS
3-00000421	CHAR	IOS READCSR	3-0000169	CHAR	IOS READHEAD
3-000002B6	CHAR	IOS READLBLK	3-0000136	CHAR	IOS READPBLK
3-00000200	CHAR	105 READPRESET	3-00000195	CHAR	IOS READTRACKD
3-0000033A	CHAR	IOS READVBLK	3-000045A	CHAR	IOS_RDSTATS IOS_READHEAD IOS_READPBLK IOS_READTRACKD IOS_READWTHBUF IOS_RECAL IOS_REREADN
3-00000484	CHAR	IOS READWITHXBUF	3-000004D	CHAR	IOS RECAL
3-0000007C	CHAR	105 RELEASE	3-00001AB	CHAR	IOS REREADN
3-00000188	CHAR	IOS REREADP	3-00000CA	IMAR	IIIM RPILPNIPR
3-000002E6	CHAR	IOS REWIND	3-0000269	CHAR	IOS_REWINDOFF IOS_SEEK
3-000000FC	CHAR	IO\$_SEARCH	3-0000024	CHAR	IOS SEEK
3-00000231	CHAR	IO\$_SENSECHAR	3-0000309	CHAR	IOS SENSEMODE
3-0000021D	CHAR	IOS_SETCHAR IOS_SETCLOCKP	3-00003B8	CHAR	10\$_SETCLOCK
3-00000088	CHAR	10\$_SETCLOCKP	3-00002DD	CHAR	IOS_SETMODE
3-000002ED	CHAR	IO\$_SKIPFILE	3-00002FA	CHAR	10\$_SKIPRECORD
3-00000029	CHAR	10\$_SPACEFILE	3-000010E	CHAR	10\$_SPACERECORD
3-000003D7	CHAR	IO\$_STARTDATA	3-00000B4	CHAR	IO\$_STARTDATAP
3-00000037	CHAR	IO\$_STARTMPROC	3-000020F	CHAR	IO\$_STARTSPNDL
3-00000059	CHAR	10 \$ _STOP	3-000000D		IO\$_UNLOAD
3-00000468	CHAR	IO\$_WRITEBUFNCRC	3- 0000011E	CHAR	IOS WRITECHECK
3-000001E4	CHAR	IOS_WRITECHECKH	3-00003ff	CHAR	IOS_WRITECSR
3-00000153	CHAR	IOS WRITEHEAD IOS WRITEMARK	3-000002A2	CHAR	IOS WRITELBLK
3-00000247	CHAR	IOS_URITEMARK	3-00000314	CHAR	IO\$_WRITEOF
3-0000012A	CHAR	IO\$_WRITEPBLK	3-0000109	CHAR	IO\$_WRITERET
-		_			•

```
F 12
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RKDISK_QIO
                                                                                                                   VAX-11 FORTRAN V3.4-56
                                                                                                                                                                   Page 18
                                                                                                                   DISK$VMSMASTER: [ERF.SRC]RKDISK.FOR: 1
 3-000017E CHAR IOS_WRITETRACKD
3-00000448 CHAR IOS_WRITEWTHBUF
AP-00000040 L+1 LUN
                                                                      3-0000326 CHAR IOS_WRITEVBLK
3-00000257 CHAR IOS_WRITMKR
3-000004A1 CHAR QIO_STRING
ARRAYS
     Address Type Name
                                                   Bytes Dimensions
  2-00000000 1*4 Q10CODE
                                                      512 (0:1, 0:63)
LABELS
     Address
                  Label
                  10
FUNCTIONS AND SUBROUTINES REFERENCED
  Type Name
                               Type Name
          IRPSW_FUNC
                                1+4 LIBSEXTZV
COMMAND QUALIFIERS
  FORTRAN /LIS=LISS:RKDISK/OBJ=OBJS:RKDISK MSRCS:RKDISK
  /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
/STANDARD=(NOSYNTAX,NOSOURCE_FORM)
/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
  /F77 /NOG_FLOATING /14 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19
COMPILATION STATISTICS
  Run Time:
                             11.39 seconds
                             27.02 seconds
371
  Elapsed Time:
  Page faults:
  Dynamic Memory:
                             245 pages
```

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